

IN THE DRAWING:

Please amend the drawings to overcome the objections raised by the Examiner regarding reference signs mentioned in the description but not shown in the drawings, as shown in the replacement sheets in the Appendix hereof. The specification has also been amended to include a mention of some of the reference characters not previously mentioned in the description, as pointed out by the Examiner. English legends have also been added to the block diagrams in Figs. 3 and 4. Replacement sheets 1/4 through 4/4 may be found in the appendix.

REMARKS

This amendment is in response to the Office Action of December 22, 2004 and is accompanied by a petition to revive this application that was inadvertently abandoned. Consideration is requested.

Claim 36 has been cancelled and many of the claims have been amended to address the objections and rejections of the Examiner. Regarding the objection to the drawings, an appendix accompanies this amendment in which replacement sheets 1-4 are provided along with annotated sheets showing the changes in red ink. Regarding the missing reference numerals, these have been added. Regarding the reference characters not mentioned in the description, the description has been amended to include reference thereto. Approval of the replacement sheets is requested.

Regarding the objection to the specification, various changes have been made throughout including those pointed to by the Examiner. Withdrawal of the objection is requested.

Regarding the objection to the claims 18, 21-24 and 37, the objectionable limitations pointed out by the Examiner have been corrected. Withdrawal of the objection is requested. Regarding claim 36, it has been cancelled to avoid an objection under 37 C.F.R 1.75.

Regarding the double patenting rejection of claims 1-34 under 35 U.S.C. §101, the co-pending application number 09/858,264 has now been abandoned and is not subject to a petition to revive. Withdrawal of the provisional double patenting rejection of claims 1-34 is requested.

Regarding the nonstatutory double patenting rejection of claims 35-37, the copending application 09/858,264 has been abandoned and withdrawal of the nonstatutory double patenting rejection is requested.

Regarding the 35 U.S.C. §101 rejection of claims 35-31 as being drawn to nonstatutory subject matter, claim 36 has been cancelled and claims 35 and 37 amended to insert the limitation that the computer program product is embodied in a computer readable medium. Withdrawal of the 35 U.S.C. §101 rejection of claims 35-37 is requested.

Regarding the 35 U.S.C. §112, second paragraph, rejection of claims 1-24 and 31-34, the indefiniteness problems in these claims as pointed out by the Examiner have been corrected. Withdrawal of the indefiniteness rejection is requested.

Regarding the novelty rejection of claims 1-10, 13-22 and 25-37 under 35 U.S.C. §102(e) as being anticipated by Turtiainen (US 6,430,407), applicant would first like to say a few words about the subject matter of the invention as illustrated for example in Fig. 2. If the Examiner will take a look at Fig. 2 in relation to the steps of claim 1, the step of receiving from a mobile station can be seen for example, by the client 110 of Fig. 2 receiving an IMSI as shown on the line 214 from phone 120. The client 110 then performs the second step, i.e., of sending the subscriber identity on a line 224 to an authentication block which will be understood from Fig. 1 could be one or more of the gateway 150, the HLR 161 and the AAAH 162 of Fig. 1 as explained in the specification in the last sentence of numbered paragraph [89] on page 14.

Referring back to claim 1, the third step of receiving from the authentication block is exemplarily illustrated in Fig. 2 by the signal on the line 232 from the gateway 150 to the client 110 where a challenge and a secret is received.

The fourth step of sending the at least one challenge to a subscriber identity module is illustrated for example in Fig. 2 where a challenge signal on a line 225 is shown sent from client 110 to phone 120. The step of receiving at least one second secret is illustrated for example by Fig. 2 where the at least one secret is shown

being sent on a line 216 from the phone 120 to the client 110. The final step of using the second secret for authenticating the client is shown in a step 227 where the client provides its identity using the second secret. (See the last sentence of numbered paragraph [99] on page 17). The independent client claim 13 is similar to claim 1.

The independent method claim 25 can also be viewed in conjunction with Fig. 2 as follows: The first step of retrieving from a subscriber can be viewed as taking place within the phone 120 of Fig. 2 for example in conjunction with the step illustrated in the block 213 followed by the sending of the IMSI on the line 214 to the client 110. The MS then receives back wirelessly from the client at least one challenge as shown for example on the line 225 of Fig. 2. Then, as illustrated in a step 215, at least one secret is generated in response to the challenge. Then, at least one secret is sent wirelessly on a line 216 from the phone 120 to the client 110. Independent claim 30 is similar. Computer program product claim 35 is similar to claims 1 and 13 and independent computer program product claim 37 is similar to claims 25 and 30.

Referring now to the Turtiainen reference, it also shows two terminal devices 1,16 in Figs 2 and 6 which are accessible by the same user 22 at the same time. By the analogy made by the Examiner, the terminal device 16 of the reference can be analogized to the client 110 of Fig. 2 of the present disclosure and the mobile phone 1 of the reference can be analogized to the phone 120 of the present disclosure. The object of the Turtiainen reference is to provide a solution in which an identification module of a mobile station can be utilized in an authentication (see column 4, lines 26-32). This objective is motivated by a desire to improve the authentication process itself, in contrast to the present invention, where the objective is to avoid having to have separate SIMs for (a) a personal GSM telephone and (b) for a GSM card phone of a personal computer, or to avoid having to use a single SIM alternately in either device (see numbered paragraph [13] of the present specification). The Turtiainen reference solves its problem by interposing the user and the user's knowledge between the terminal device 16 and the mobile phone 1 as the two devices interact with an application 45, 60. The present invention solves its

problem by a series of claimed interchanges (such as just explained above) between for instance a mobile phone 120 and a client 110. If the Examiner will refer to Figs. 2 and 6 of the reference, it will be seen that no such signal exchanges take place between the mobile phone 1 and the laptop 16 or the telephone 16. Rather, the user 22 is utilized with the knowledge that the user has possession of and which forms is an integral of the process illustrated by Turtiainen.

Moreover, there is no IMSI received by Turtiainen's terminal device 16 such as claimed in the first step of claim 1 and as shown by step 214 of Fig. 2 of the present disclosure; there is no challenge received by the terminal device 16 and sent to the mobile phone 1; and, there is no secret sent from the mobile phone to the terminal 16. Turtiainen shows the user 22 intermediate between the devices 1, 16 and also shows the network or the application 46 as the sender/receiver of the signals from the terminals 1, 16.

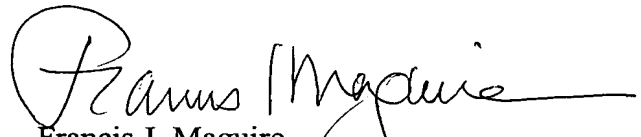
With regard to the content of the signals shown by the reference, the only thing shown by for example Fig. 2 of the reference is a "connection" 21 between the laptop 16 and the application 45 and a "connection" 26 between the application and the mobile phone along with a "confirmation" signal 29. The nature of the signals 23, 24 cannot be determined from the reference because a detailed description thereof does not appear in the specification of Turtiainen. Reference numerals 27 and 28 are explained in column 9, lines 3-8 where it is explained that the signal 27 is "information" sent by the user reflective of information received by looking at the display 31 of MS1 and the response given by the user to the MS1 is indicated by the arrow 28. None of this is even remotely like what is claimed in the independent claims of the present invention as explained above. The signals shown in Fig. 6 of Turtiainen are similar to those shown in Fig. 2 and are not pertinent to those claimed by the present applicant.

Withdrawal of the 35 U.S.C. §102(e) rejection of claims 1-10, 13-22 and 25-37 is requested.

Regarding the 35 U.S.C. §103 rejection of claims 11-12 and 23-24, claims 11 and 12 depend from independent claim 1 and are at least patentable over Turtiainen for the reasons given above. A similar situation pertains to dependent claims 23 and 24 which ultimately depend from independent claim 13 which has been shown above to be quite different from Turtiainen. Withdrawal of the obviousness rejection of claims 11-12 and 23-24 is requested.

The objections and rejections of the Office Action of December 22, 2004 having been obviated by amendment or shown to be inapplicable, withdrawal thereof is requested and passage of claims 1-35 and 37 to issue is solicited.

Respectfully submitted,


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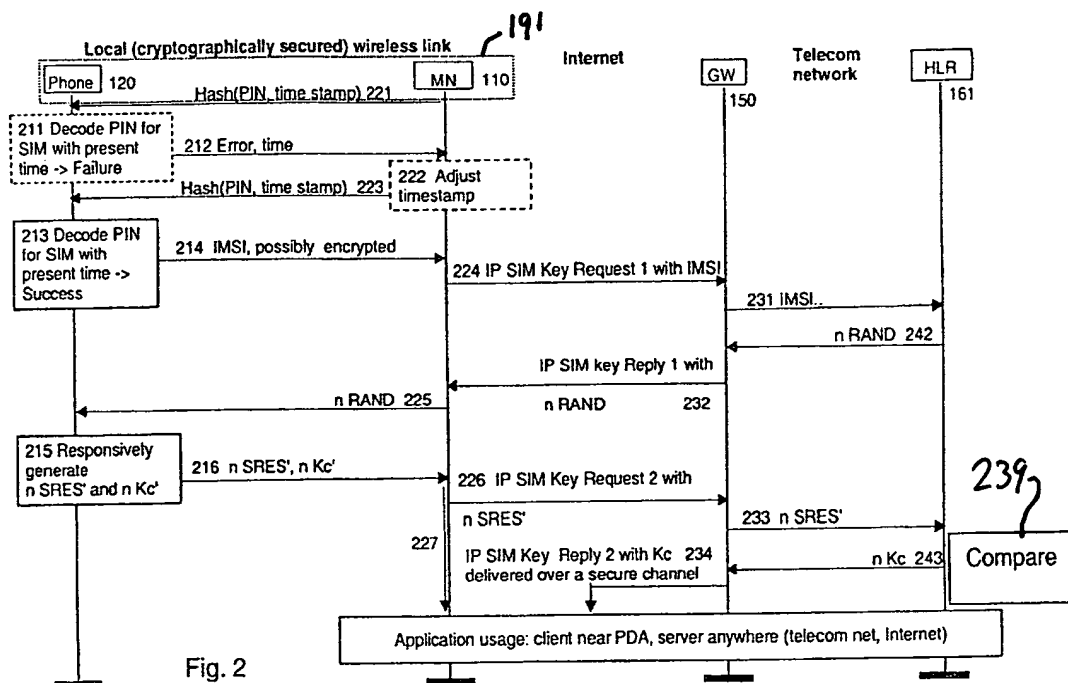
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Celestial Bodies



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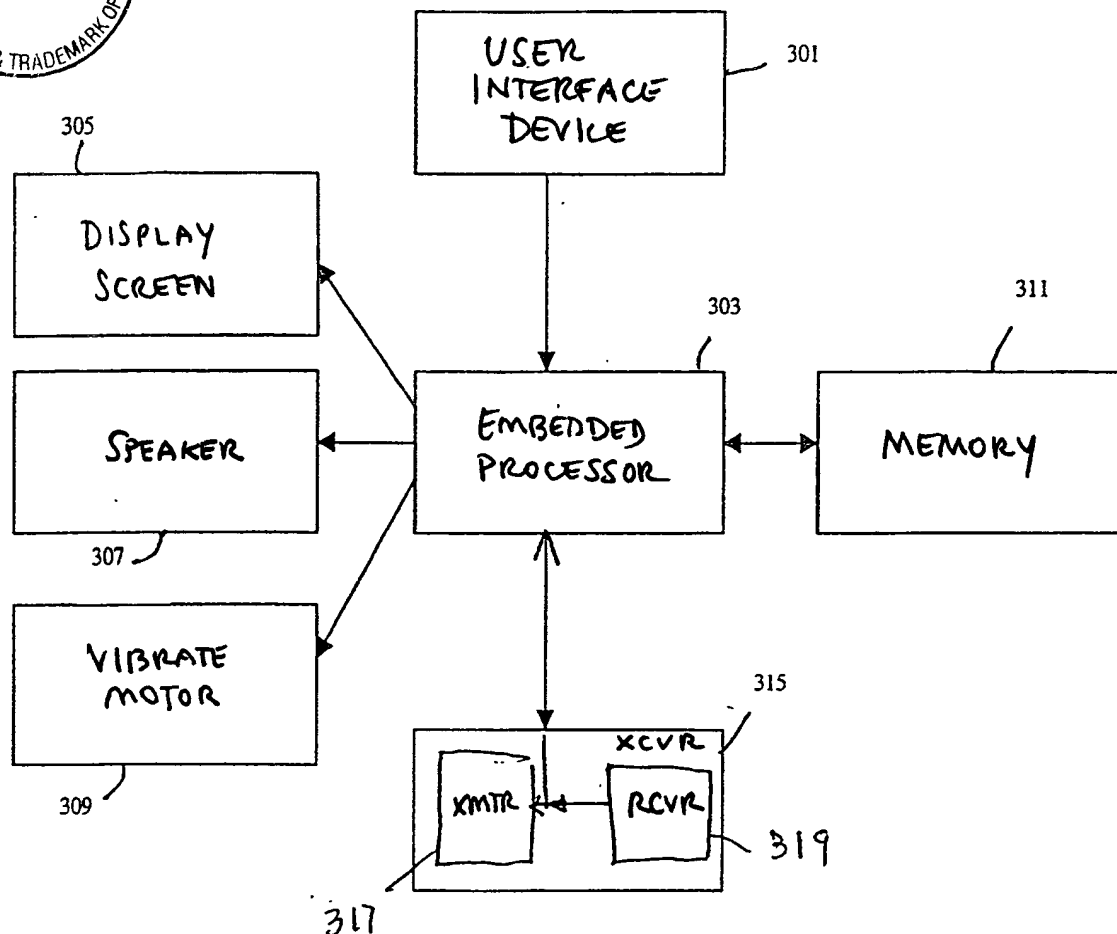


Fig. 3

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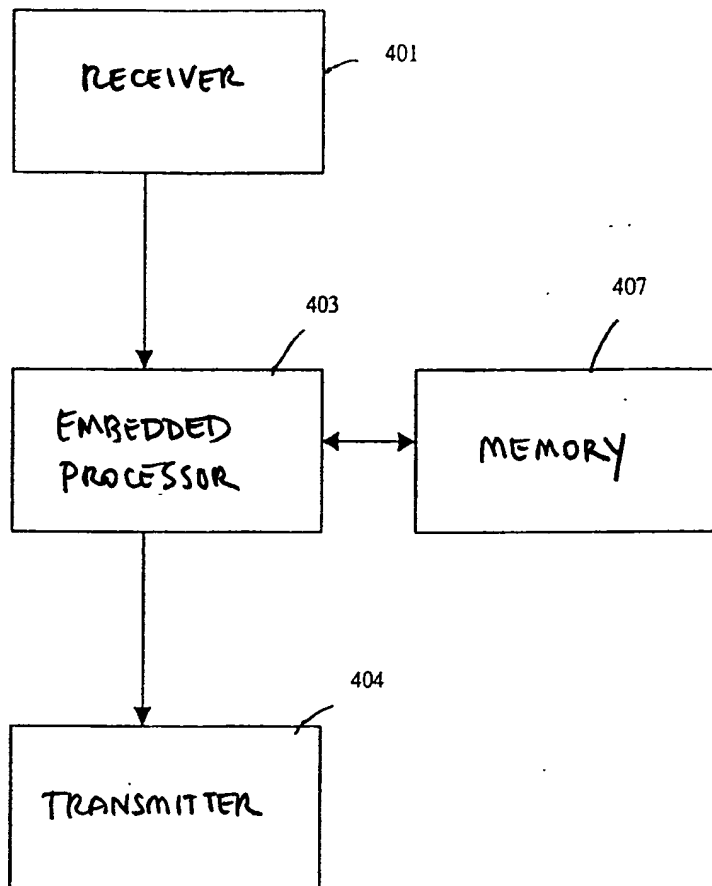


Fig. 4